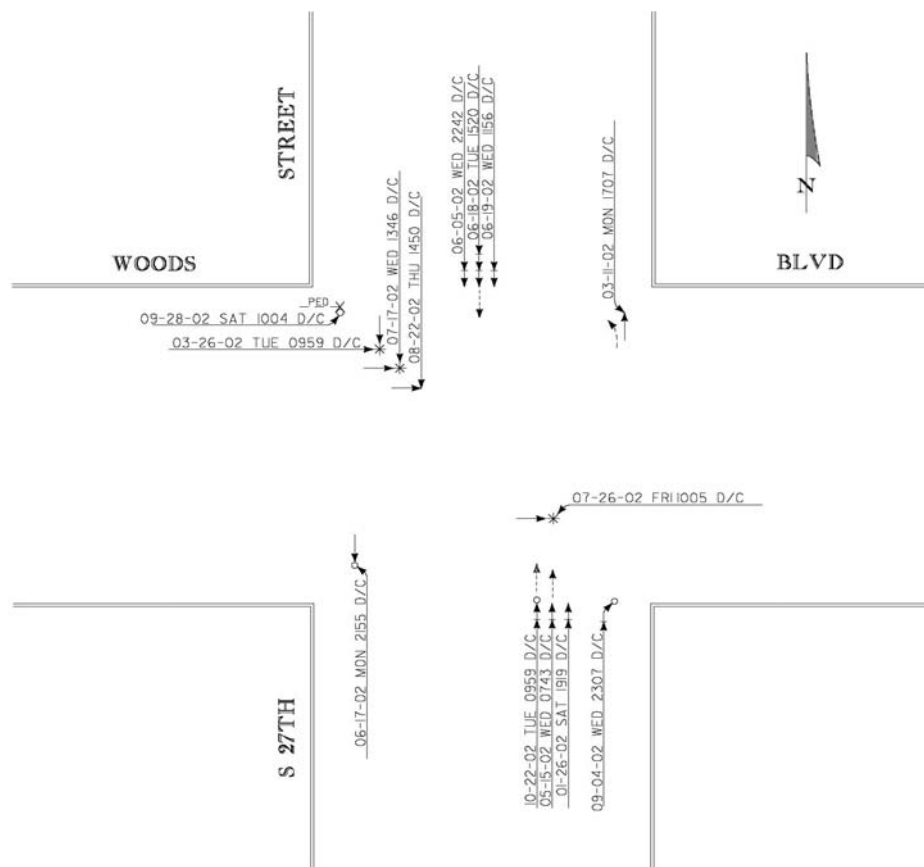


# 5.11 27th Street and Woods Boulevard

## BEFORE

**ADT:** 24,500 veh/day  
**Traffic Control:** Actuated Coordinated Signal

**Time Period:** 2002  
**Crash Pattern:** SB/NB Rear Ends,  
 SB Right Angles



Total Crashes in Before Period: 14



27th Street and Woods Boulevard - Northbound Approach (Before)

## 5.11 27th Street and Woods Boulevard

**AFTER**

**Countermeasures:** Adjusted Signal Timing

**Time Period:**

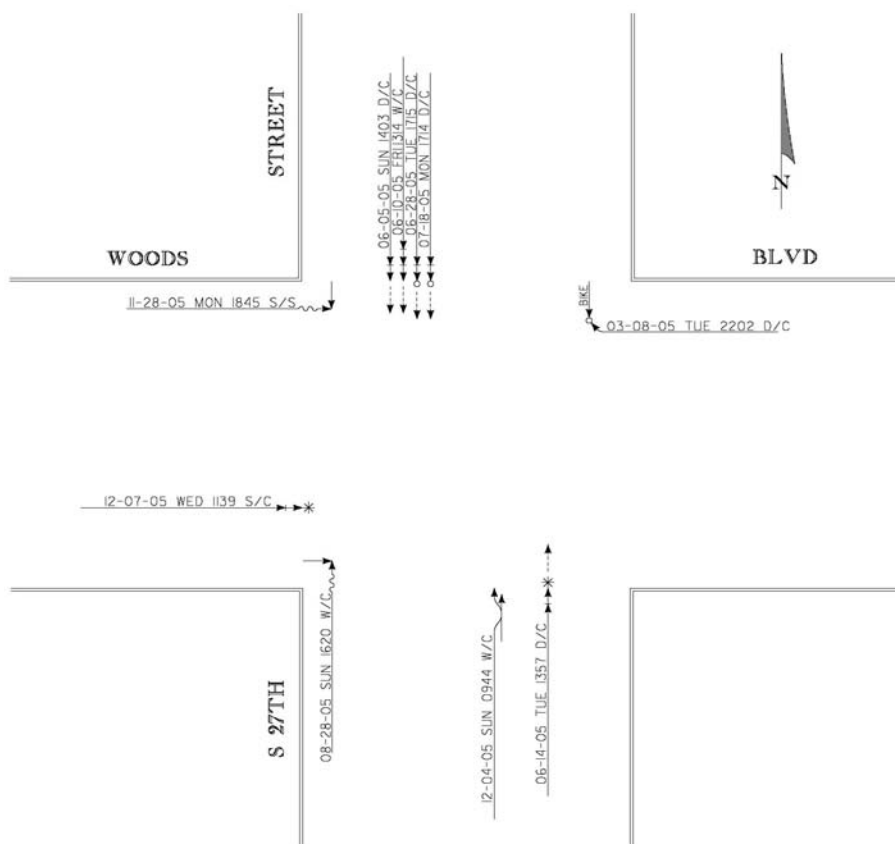
2005

**Improvement Completion Date:** August 12, 2003

**Speed Limits:**

NS Arterial- 35 mph

EW Collector- 25 mph



Total Crashes in After Period: 10



27th Street and Woods Boulevard - Northbound Approach (After)

## 5.11 27th Street and Woods Boulevard

## COMPARISON

Countermeasures:

Adjusted Signal Timing

Improvement Completion Date:

August 12, 2003

	Before	After	Change
Analysis Period	2002	2005	-
<b>Primary Crash Benefit</b>			
Total Number of Correctable Crashes	10	6	-40%
All Other Intersection Crashes	4	4	0%
<b>Intersection Crash Experience</b>			
Injury + Fatal Crashes	4	3	-25%
Property Damage-Only Crashes	7	5	-29%
Non-Reportable Crashes	3	2	-33%
<i>Total Number of Intersection Crashes</i>	<i>14</i>	<i>10</i>	<i>-29%</i>
<b>Total Intersection Benefit</b>			
Crash Rate	1.57	1.12	-29%
EPDO Rate	5.37	4.01	-25%
EPDO Number*	48.04	35.89	-12.15

Cost of Property Damage Crash: \$ 6,200

Total Benefit (12 months): \$ 75,330

Equivalent Uniform Annual Benefit (EUAB): \$ 77,440

**Total Cost of Improvements:**

Equivalent Uniform Annual Cost (EUAC): \$ 1,060

Initial Cost: \$ 1,000

**Benefit-Cost Ratio:**

$$\frac{\$ 77,440}{\$ 1,060} = 73.1$$

**Net Benefit (Present Worth):** \$ 77,440 - \$1,060 = \$76,380

*\*Change NOT Statistically Significant at 95% Confidence Interval*

This page intentionally left blank.